

**WHAT IS CLAIMED IS:**

1. A continuous method for the preparation of an aromatic carbonate, comprising the step of reacting a dialkyl carbonate and an aromatic hydroxy compound in the presence of a heterogeneous catalyst
- 5 in a loop-type, catalyst-containing reaction apparatus comprising
- a) a reactor equipped with a filter, which is located inside the reactor, for preventing the output of a heterogeneous catalyst and only outputting reaction solution;
  - b) a reaction solution circulation pump that is connected to the
  - 10 side of the reactor on which the filter is equipped;
  - c) a heat exchanger, which is connected between the reaction solution circulation pump and the reactor, for raising the temperature of the reaction solution that is supplied from the reaction solution circulation pump to a desired reaction temperature and evaporating it; and
  - 15 d) a distillation column, which is connected to the upper portion of the reactor, for separating the evaporated reactants that are generated in the reactor and the heat exchanger into high boiling point components and low boiling point components, and then condensing the high boiling point components to withdraw and direct them to the reactor and
  - 20 outputting the low boiling point components in a gaseous form.

2. The continuous method for the preparation of the aromatic carbonate of claim 1, wherein said heterogeneous catalyst is a supported catalyst wherein a transition metal oxide is supported on a carrier having a size of 1 to 20 mm.

5           3. The continuous method for the preparation of the aromatic carbonate of claim 2, wherein said transition metal oxide is selected from the group consisting of  $\text{MoO}_3$ ,  $\text{Ga}_2\text{O}_3$ ,  $\text{V}_2\text{O}_5$ ,  $\text{PbO}$ ,  $\text{ZrO}_2$ ,  $\text{TiO}_2$ ,  $\text{CdO}$ ,  $\text{Fe}_2\text{O}_3$ ,  $\text{CuO}$ ,  $\text{MgO}$ ,  $\text{Y}_2\text{O}_3$ ,  $\text{Mn}_3\text{NiO}$ ,  $\text{ZnO}$ ,  $\text{Nd}_2\text{O}_3$ ,  $\text{Co}_2\text{O}_3$ ,  $\text{RuO}_2$ ,  $\text{Nb}_2\text{O}_5$ ,  $\text{Cr}_2\text{O}_3$ , and a mixture thereof.

10           4. A reaction apparatus for the preparation of an aromatic carbonate, comprising

a) a reactor equipped with a filter, which is located inside the reactor, for preventing the output of a heterogeneous catalyst and only outputting reaction solution;

15           b) a reaction solution circulation pump that is connected to the side of the reactor on which the filter is equipped;

c) a heat exchanger, which is connected between the reaction solution circulation pump and the reactor, for raising the temperature of the reaction solution that is supplied from the reaction solution circulation  
20 pump to a desired reaction temperature and evaporating it; and

d) a distillation column, which is connected to the upper portion of the reactor, for separating the evaporated reactants that are generated in the reactor and the heat exchanger into high boiling point components and low boiling point components and then condensing the high boiling point components to withdraw and direct them to the reactor and outputting the low boiling point components in a gaseous form.

5. The reaction apparatus for the preparation of the aromatic carbonate of claim 4, further comprising e) a heat exchanger for cooling, which is connected to the upper portion of the distillation column, for condensing the low boiling point components that are supplied from the distillation column in a gaseous form.